

Khashayar Khorasani

List of Publications by Year in descending order

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325
papers

8,128
citations

46918

47
h-index

69108

77
g-index

338
all docs

338
docs citations

338
times ranked

4994
citing authors

#	ARTICLE	IF	CITATIONS
1	An integral manifold approach to the feedback control of flexible joint robots. IEEE Journal of Robotics and Automation, 1987, 3, 291-300.	2.2	400
2	Deep Convolutional Neural Networks and Learning ECG Features for Screening Paroxysmal Atrial Fibrillation Patients. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2095-2104.	5.9	268
3	A Recurrent Neural-Network-Based Sensor and Actuator Fault Detection and Isolation for Nonlinear Systems With Application to the Satellite's Attitude Control Subsystem. IEEE Transactions on Neural Networks, 2009, 20, 45-60.	4.8	196
4	Multi-agent team cooperation: A game theory approach. Automatica, 2009, 45, 2205-2213.	3.0	192
5	Dynamic neural network-based fault diagnosis of gas turbine engines. Neurocomputing, 2014, 125, 153-165.	3.5	182
6	Facial Expression Recognition Using Constructive Feedforward Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1588-1595.	5.5	181
7	Failure Prognosis and Applicationsâ€”A Survey of Recent Literature. IEEE Transactions on Reliability, 2021, 70, 728-748.	3.5	176
8	Simultaneous fault detection and consensus control design for a network of multi-agent systems. Automatica, 2016, 66, 185-194.	3.0	174
9	Optimal consensus algorithms for cooperative team of agents subject to partial information. Automatica, 2008, 44, 2766-2777.	3.0	171
10	Actuator Fault Detection and Isolation for a Network of Unmanned Vehicles. IEEE Transactions on Automatic Control, 2009, 54, 835-840.	3.6	171
11	Sensor Fault Detection, Isolation, and Identification Using Multiple-Model-Based Hybrid Kalman Filter for Gas Turbine Engines. IEEE Transactions on Control Systems Technology, 2016, 24, 1184-1200.	3.2	166
12	$\lim_{H \rightarrow \infty} H_{\infty}$ Consensus Achievement of Multi-Agent Systems With Directed and Switching Topology Networks. IEEE Transactions on Automatic Control, 2014, 59, 3104-3109.	3.6	135
13	Distributed Fault Detection and Isolation Filter Design for a Network of Heterogeneous Multiagent Systems. IEEE Transactions on Control Systems Technology, 2014, 22, 1061-1069.	3.2	131
14	Fault Detection and Isolation of discrete-time Markovian jump linear systems with application to a network of multi-agent systems having imperfect communication channels. Automatica, 2009, 45, 2032-2040.	3.0	128
15	Fault detection and isolation of a dual spool gas turbine engine using dynamic neural networks and multiple model approach. Information Sciences, 2014, 259, 234-251.	4.0	121
16	Team Consensus for a Network of Unmanned Vehicles in Presence of Actuator Faults. IEEE Transactions on Control Systems Technology, 2010, 18, 1155-1161.	3.2	116
17	An ensemble of dynamic neural network identifiers for fault detection and isolation of gas turbine engines. Neural Networks, 2016, 76, 106-121.	3.3	116
18	Constructive Feedforward Neural Networks Using Hermite Polynomial Activation Functions. IEEE Transactions on Neural Networks, 2005, 16, 821-833.	4.8	108

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19	Fault detection and isolation of gas turbine engines using a bank of neural networks. Journal of Process Control, 2015, 36, 22-41.	1.7	104
20	New training strategies for constructive neural networks with application to regression problems. Neural Networks, 2004, 17, 589-609.	3.3	102
21	Parameter Estimation-Based Fault Detection, Isolation and Recovery for Nonlinear Satellite Models. IEEE Transactions on Control Systems Technology, 2008, 16, 799-808.	3.2	101
22	An Adaptive Structure Neural Networks with Application to EEG Automatic Seizure Detection. Neural Networks, 1996, 9, 1223-1240.	3.3	96
23	Application of a radial basis function (RBF) neural network for fault diagnosis in a HVDC system. IEEE Transactions on Power Systems, 1998, 13, 177-183.	4.6	89
24	A Multiple Model-Based Approach for Fault Diagnosis of Jet Engines. IEEE Transactions on Control Systems Technology, 2013, 21, 254-262.	3.2	86
25	A Neural Network-Based Multiplicative Actuator Fault Detection and Isolation of Nonlinear Systems. IEEE Transactions on Control Systems Technology, 2013, 21, 842-851.	3.2	77
26	Transient Gas Turbine Performance Diagnostics Through Nonlinear Adaptation of Compressor and Turbine Maps. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	0.5	76
27	An integral manifold approach for tip-position tracking of flexible multi-link manipulators. IEEE Transactions on Automation Science and Engineering, 1997, 13, 823-837.	2.4	73
28	Adaptive time delay neural network structures for nonlinear system identification. Neurocomputing, 2002, 47, 207-240.	3.5	70
29	Optimal Consensus Seeking in a Network of Multiagent Systems: An LMI Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 540-547.	5.5	70
30	End-point control of a flexible-link manipulator: theory and experiments. IEEE Transactions on Control Systems Technology, 1997, 5, 556-570.	3.2	69
31	Stochastic Analysis of the FXLMS-Based Narrowband Active Noise Control System. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1000-1014.	3.8	69
32	Robust fault detection and isolation of time-delay systems using a geometric approach. Automatica, 2009, 45, 1567-1573.	3.0	67
33	A New Fault Diagnosis of Multifunctional Spoiler System Using Integrated Artificial Neural Network and Discrete Wavelet Transform Methods. IEEE Sensors Journal, 2018, 18, 4990-5001.	2.4	67
34	A neural-network-based controller for a single-link flexible manipulator using the inverse dynamics approach. IEEE Transactions on Industrial Electronics, 2001, 48, 1074-1086.	5.2	66
35	A new strategy for adaptively constructing multilayer feedforward neural networks. Neurocomputing, 2003, 51, 361-385.	3.5	66
36	Event-Triggered Multiobjective Control and Fault Diagnosis: A Unified Framework. IEEE Transactions on Industrial Informatics, 2017, 13, 298-311.	7.2	66

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37	Neural network based control schemes for flexible-link manipulators: simulations and experiments. <i>Neural Networks</i> , 1998, 11, 1357-1377.	3.3	65
38	Data-driven fault detection, isolation and estimation of aircraft gas turbine engine actuator and sensors. <i>Mechanical Systems and Signal Processing</i> , 2018, 100, 415-438.	4.4	64
39	Dynamic neural networks for gas turbine engine degradation prediction, health monitoring and prognosis. <i>Neural Computing and Applications</i> , 2016, 27, 2157-2192.	3.2	63
40	Hybrid multi-mode machine learning-based fault diagnosis strategies with application to aircraft gas turbine engines. <i>Neural Networks</i> , 2020, 130, 126-142.	3.3	63
41	A Geometric Approach to Fault Detection and Isolation of Continuous-Time Markovian Jump Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 1343-1357.	3.6	60
42	A New Robust Narrowband Active Noise Control System in the Presence of Frequency Mismatch. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2006, 14, 2189-2200.	3.8	59
43	Nonlinear Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, .	0.5	58
44	A data-driven approach to actuator and sensor fault detection, isolation and estimation in discrete-time linear systems. <i>Automatica</i> , 2017, 85, 165-178.	3.0	57
45	Fault Diagnosis of Nonlinear Systems Using a Hybrid Approach. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , .	0.6	56
46	Actuator fault accommodation strategy for a team of multi-agent systems subject to switching topology. <i>Automatica</i> , 2015, 62, 200-207.	3.0	56
47	An inverse dynamics control strategy for tip position tracking of flexible multi-link manipulators. <i>Journal of Field Robotics</i> , 1997, 14, 649-658.	0.7	54
48	Fault recovery of an under-actuated quadrotor Aerial Vehicle. , 2010, , .		51
49	Multiple-Model Sensor and Components Fault Diagnosis in Gas Turbine Engines Using Autoassociative Neural Networks. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014, 136, .	0.5	49
50	Fault Detection and Isolation. , 2011, , .		48
51	Modeling and Control of Linear Two-time Scale Systems: Applied to Single-Link Flexible Manipulator. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2006, 45, 235-265.	2.0	45
52	A Hybrid Fault Detection and Isolation Strategy for a Network of Unmanned Vehicles in Presence of Large Environmental Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2010, , .	3.2	42
53	Hierarchical Fault Diagnosis and Fuzzy Rule-Based Reasoning for Satellites Formation Flight. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2011, 47, 2435-2456.	2.6	39
54	A Hierarchical Architecture for Cooperative Actuator Fault Estimation and Accommodation of Formation Flying Satellites in Deep Space. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2012, 48, 1428-1450.	2.6	39

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55	Control of non-minimum phase singularly perturbed systems with application to flexible-link manipulators. International Journal of Control, 1996, 63, 679-701.	1.2	37
56	Distributed and cooperative quaternion-based attitude synchronization and tracking control for a network of heterogeneous spacecraft formation flying mission. Journal of the Franklin Institute, 2015, 352, 3885-3913.	1.9	37
57	A Distributed Control Reconfiguration and Accommodation for Consensus Achievement of Multiagent Systems Subject to Actuator Faults. IEEE Transactions on Control Systems Technology, 2016, 24, 2031-2047.	3.2	37
58	Prognosis and Health Monitoring of Nonlinear Systems Using a Hybrid Scheme Through Integration of PFs and Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1990-2004.	5.9	37
59	Optimal hybrid fault recovery in a team of unmanned aerial vehicles. Automatica, 2012, 48, 410-418.	3.0	36
60	A distributed model predictive control (MPC) fault reconfiguration strategy for formation flying satellites. International Journal of Control, 2016, 89, 960-983.	1.2	36
61	An optimal cooperation in a team of agents subject to partial information. International Journal of Control, 2009, 82, 571-583.	1.2	35
62	Cooperative actuator fault accommodation in formation flight of unmanned vehicles using relative measurements. International Journal of Control, 2011, 84, 876-894.	1.2	35
63	Hybrid fault diagnosis of nonlinear systems using neural parameter estimators. Neural Networks, 2014, 50, 12-32.	3.3	35
64	A New Fault Prognosis of MFS System Using Integrated Extended Kalman Filter and Bayesian Method. IEEE Transactions on Industrial Informatics, 2018, , 1-1.	7.2	35
65	Fault Detection and Isolation of Distributed Time-Delay Systems. IEEE Transactions on Automatic Control, 2009, 54, 2680-2685.	3.6	34
66	Control of a flexible-joint robot using neural networks. IEEE Transactions on Control Systems Technology, 1997, 5, 453-462.	3.2	33
67	Identification of a two-link flexible manipulator using adaptive time delay neural networks. IEEE Transactions on Systems, Man, and Cybernetics, 2000, 30, 165-172.	5.5	33
68	Robust observer-based fault diagnosis for an unmanned aerial vehicle. , 2011, , .		32
69	An $\frac{H}{\hat{z}}$ cooperative fault recovery control of multi-agent systems. Automatica, 2017, 84, 101-108.	3.0	31
70	Constrained distributed cooperative synchronization and reconfigurable control of heterogeneous networked Euler-Lagrange multi-agent systems. Information Sciences, 2016, 370-371, 578-597.	4.0	30
71	A Negative Selection Immune System Inspired Methodology for Fault Diagnosis of Wind Turbines. IEEE Transactions on Cybernetics, 2017, 47, 3799-3813.	6.2	30
72	A pulsed plasma thruster fault detection and isolation strategy for formation flying of satellites. Applied Soft Computing Journal, 2010, 10, 746-758.	4.1	28

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73	Hierarchical Fault Diagnosis and Health Monitoring in Satellites Formation Flight. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 223-239.	3.3	28
74	Distributed Formation Recovery Control of Heterogeneous Multiagent Euler-Lagrange Systems Subject to Network Switching and Diagnostic Imperfections. IEEE Transactions on Control Systems Technology, 2016, 24, 2158-2166.	3.2	28
75	Computationally intelligent strategies for robust fault detection, isolation, and identification of mobile robots. Neurocomputing, 2016, 171, 335-346.	3.5	28
76	Fault detection and isolation of dissipative parabolic PDEs: Finite-dimensional geometric approach. , 2012, , .		27
77	Cooperative tracking control of Euler-Lagrange systems with switching communication network topologies. , 2010, , .		26
78	Switching control of a modified leader-follower team of agents under the leader and network topological changes. IET Control Theory and Applications, 2011, 5, 1369-1377.	1.2	26
79	Robust sensor fault detection and isolation of gas turbine engines subjected to time-varying parameter uncertainties. Mechanical Systems and Signal Processing, 2016, 76-77, 136-156.	4.4	26
80	Optimal Control and Game Theoretic Approaches to Cooperative Control of a Team of Multi-Vehicle Unmanned Systems. , 2007, , .		25
81	A robust adaptive congestion control strategy for large scale networks with differentiated services traffic. Automatica, 2011, 47, 26-38.	3.0	25
82	A Cyber-Security Methodology for a Cyber-Physical Industrial Control System Testbed. IEEE Access, 2021, 9, 16239-16253.	2.6	25
83	Distributed reconfigurable control strategies for switching topology networked multi-agent systems. ISA Transactions, 2017, 71, 51-67.	3.1	23
84	Semi-decentralized nonlinear cooperative control strategies for a network of heterogeneous autonomous underwater vehicles. International Journal of Robust and Nonlinear Control, 2017, 27, 2688-2707.	2.1	23
85	A Dendritic Cell Immune System Inspired Scheme for Sensor Fault Detection and Isolation of Wind Turbines. IEEE Transactions on Industrial Informatics, 2018, 14, 545-555.	7.2	23
86	Application of adaptive constructive neural networks to image compression. IEEE Transactions on Neural Networks, 2002, 13, 1112-1126.	4.8	22
87	A new facial expression recognition technique using 2-D DCT and K-means algorithm. , 0, , .		22
88	Statistical performance of the memoryless nonlinear gradient algorithm for the constrained adaptive IIR notch filter. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1691-1702.	0.1	22
89	Fault Detection and Isolation of Actuator Faults in Spacecraft Formation Flight. , 2006, , .		22
90	Fault Detection and Isolation of Actuator Faults in Overactuated Systems. Proceedings of the American Control Conference, 2007, , .	0.0	22

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91	An inverse dynamics sliding control technique for flexible multi-link manipulators. , 1997, , .		21
92	Interactive Bank of Unscented Kalman Filters for Fault Detection and Isolation in Reaction Wheel Actuators of Satellite Attitude Control System. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	21
93	A distributed Kalman filter for actuator fault estimation of deep space formation flying satellites. , 2009, , .		21
94	Multiple-model based sensor fault diagnosis using hybrid kalman filter approach for nonlinear gas turbine engines. , 2013, , .		21
95	Adaptive formation control of UAVs in the presence of unknown vortex forces and leader commands. , 2006, , .		20
96	A Dual Particle Filter-Based Fault Diagnosis Scheme for Nonlinear Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1317-1334.	3.2	20
97	Feature learning with deep Convolutional Neural Networks for screening patients with paroxysmal atrial fibrillation. , 2016, , .		19
98	Investigation into an artificial neural network based on-line current controller for an HVDC transmission link. IEEE Transactions on Power Systems, 1997, 12, 1425-1431.	4.6	18
99	A Robust Distributed Congestion-Control Strategy for Differentiated-Services Network. IEEE Transactions on Industrial Electronics, 2009, 56, 608-617.	5.2	18
100	Fault Detection and Isolation of Linear Impulsive Systems. IEEE Transactions on Automatic Control, 2011, 56, 1905-1910.	3.6	18
101	Cooperative actuator fault accommodation in formation flight of unmanned vehicles using absolute measurements. IET Control Theory and Applications, 2012, 6, 2805-2819.	1.2	18
102	Dynamic neural network-based estimator for fault diagnosis in reaction wheel actuator of satellite attitude control system. , 0, , .		17
103	Fault detection and diagnosis for satellite's attitude control system (ACS) using an interactive multiple model (IMM) approach. , 0, , .		17
104	Fault Detection and Isolation in a redundant reaction wheels configuration of a satellite. , 2007, , .		17
105	A robust semi-decentralized fault detection strategy for multi-agent systems. International Journal of Intelligent Unmanned Systems, 2013, 1, 21-35.	0.6	17
106	Fault detection and isolation of the attitude control subsystem of spacecraft formation flying using extended Kalman filters. International Journal of Control, 2015, 88, 2154-2179.	1.2	17
107	Geometric fault detection and isolation of two-dimensional (2D) systems. , 2013, , .		16
108	Simultaneous fault detection and control design for a network of multi-agent systems. , 2014, , .		16

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109	On linearization of nonlinear singularity perturbed systems. IEEE Transactions on Automatic Control, 1987, 32, 256-260.	3.6	15
110	Control of a flexible-link manipulator. , 0, , .		15
111	Tracking control of a flexible-link manipulator using neural networks: experimental results. Robotica, 2002, 20, 417-427.	1.3	15
112	A novel H_{∞} control strategy for design of a robust dynamic routing algorithm in traffic networks. IEEE Journal on Selected Areas in Communications, 2008, 26, 706-718.	9.7	15
113	Inverse dynamics control of flexible-link manipulators using neural networks. , 0, , .		14
114	A Dynamic Neural Network-based Reaction Wheel Fault Diagnosis for Satellites. , 2006, , .		14
115	A fault detection, isolation and reconstruction strategy for a satellite's attitude control subsystem with redundant reaction wheels. , 2007, , .		14
116	Analysis of actuator faults in a cooperative team consensus of unmanned systems. , 2009, , .		14
117	Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. , 2010, , .		14
118	State Synchronization of Networked Euler-Lagrange Systems with Switching Communication Topologies Subject to Actuator Faults. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8766-8773.	0.4	14
119	A hybrid prognosis and health monitoring strategy by integrating particle filters and neural networks for gas turbine engines. , 2015, , .		14
120	Cooperative Optimal Synchronization of Networked Uncertain Nonlinear Euler-Lagrange Heterogeneous Multi-Agent Systems With Switching Topologies. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	14
121	Fault detection and isolation of two-dimensional (2D) systems. Systems and Control Letters, 2017, 99, 25-32.	1.3	14
122	Model predictive and non-cooperative dynamic game fault recovery control strategies for a network of unmanned underwater vehicles. International Journal of Control, 2019, 92, 489-517.	1.2	14
123	Optimal cooperation in a modified leader-follower team of agents with partial availability of leader command. , 2007, , .		13
124	Fault Diagnosis of Gas Turbine Engines by Using Dynamic Neural Networks. , 2010, , .		13
125	Multi-agent methodology for distributed and cooperative supervisory estimation subject to unreliable information. IET Control Theory and Applications, 2011, 5, 606-621.	1.2	13
126	Reconfigurable cooperative control of networked lagrangian systems under actuator saturation constraints. IET Control Theory and Applications, 2012, 6, 578.	1.2	13

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127	Distributed Event-Triggered Consensus-Based Control of DC Microgrids in Presence of DoS Cyber Attacks. <i>IEEE Access</i> , 2021, 9, 54009-54021.	2.6	13
128	Dynamic Neural Network-Based Fault Detection and Isolation for Thrusters in Formation Flying of Satellites. <i>Lecture Notes in Computer Science</i> , 2009, , 780-793.	1.0	13
129	Neural Network-based Actuator Fault Diagnosis for Attitude Control Subsystem of an Unmanned Space Vehicle. , 2006, , .		12
130	Robust feedback linearization-based congestion control using a fluid flow model. , 2006, , .		12
131	Fault detection and isolation for uncertain nonlinear systems with application to a satellite reaction wheel actuator. , 2007, , .		12
132	A Hierarchical architecture for cooperative fault accommodation of formation flying satellites in deep space. , 2009, , .		12
133	Networked Estimation of Relative Sensing Multiagent Systems Using Reconfigurable Sets of Subobservers. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 2188-2204.	3.2	12
134	Event-triggered fault detection, isolation and control design of linear systems. , 2015, , .		12
135	An observer-based inverse dynamics control strategy for flexible multi-link manipulators. , 0, , .		11
136	Identification of a class of nonlinear systems using dynamic neural network structures. , 0, , .		11
137	An indirect adaptive control for fully feedback linearizable discrete-time non-linear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 1997, 11, 665-680.	2.3	11
138	Neural network based fault diagnosis in an HVDC system. , 0, , .		11
139	A Dynamic Neural Network-based Reaction Wheel Fault Diagnosis for Satellites. , 0, , .		11
140	Intelligent and learning-based approaches for health monitoring and fault diagnosis of RADARSAT-1 attitude control system. , 2007, , .		11
141	A game theory approach to multi-agent team cooperation. , 2009, , .		11
142	Hybrid fault detection and isolation strategy for non-linear systems in the presence of large environmental disturbances. <i>IET Control Theory and Applications</i> , 2010, 4, 2879-2895.	1.2	11
143	A novel distributed robust fault detection and isolation filter design for a network of nonhomogeneous multi-agent systems. , 2012, , .		11
144	Networked Estimation of Multi-Agent Systems Subject to Faults and Unreliable Information. <i>Asian Journal of Control</i> , 2015, 17, 1347-1364.	1.9	11

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145	A single dynamic observer-based module for design of simultaneous fault detection, isolation and tracking control scheme. International Journal of Control, 2018, 91, 508-523.	1.2	11
146	Ensemble Kalman Filters for State Estimation and Prediction of Two-Time Scale Nonlinear Systems With Application to Gas Turbine Engines. IEEE Transactions on Control Systems Technology, 2019, 27, 2565-2573.	3.2	11
147	Robust stabilization of non-linear systems with unmodelled dynamics. International Journal of Control, 1989, 50, 827-844.	1.2	10
148	A Neural Net Controller for Flexible-Joint Manipulators. , 1990, , .		10
149	Tip position tracking of flexible multi-link manipulators: An integral manifold approach. , 0, , .		10
150	A decentralized indirect adaptive control for a class of two-time-scale nonlinear systems with application to flexible-joint manipulators. IEEE Transactions on Industrial Electronics, 1999, 46, 1019-1029.	5.2	10
151	State Estimation of the Vinyl Acetate Reactor Using Unscented Kalman Filters (UKF). , 0, , .		10
152	Fault detection and diagnosis for reaction wheels of satellite's attitude control system using a bank of kalman filters. , 0, , .		10
153	A neural network-based actuator gain Fault Detection and Isolation strategy for nonlinear systems. , 2007, , .		10
154	Semi-Decentralized Optimal Control Technique for a Leader-Follower Team of Unmanned Systems with Partial Availability of the Leader Command. , 2007, , .		10
155	A geometric approach to robust Fault Detection and Isolation of discrete-time Markovian jump systems. , 2008, , .		10
156	An LMI approach to optimal consensus seeking in multi-agent systems. , 2009, , .		10
157	Velocity synchronization of networked Euler-Lagrange systems with switching network topologies subject to actuator faults. , 2010, , .		10
158	Reconfigurable Synchronization Control of Networked Euler-Lagrange Systems with Switching Communication Topologies. Asian Journal of Control, 2014, 16, 830-844.	1.9	10
159	A novel particle filter parameter prediction scheme for failure prognosis. , 2014, , .		10
160	An improved particle filtering-based approach for health prediction and prognosis of nonlinear systems. Journal of the Franklin Institute, 2018, 355, 3753-3794.	1.9	10
161	Feedback control of two-time-scale block implemented discrete-time systems. IEEE Transactions on Automatic Control, 1987, 32, 69-73.	3.6	9
162	Adaptive friction compensation using a Lyapunov-based design scheme. , 0, , .		9

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163	A Filtered-X RLS Based Narrowband Active Noise Control System in the Presence of Frequency Mismatch. , 0, , .		9
164	Neural Network-based Actuator Fault Diagnosis for Attitude Control Subsystem of a Satellite. , 2006, , .		9
165	Fault detection of gas turbine engines using dynamic neural networks. , 2012, , .		9
166	An H<inf>∞</inf> consensus achievement for LTI multi-agent systems with directed fixed networks. , 2012, , .		9
167	Determination of Security Index for Linear Cyber-Physical Systems Subject to Malicious Cyber Attacks. , 2019, , .		9
168	Statistical analysis of narrowband active noise control using a simplified variable step-size FXLMS algorithm. Signal Processing, 2021, 183, 108012.	2.1	9
169	Neural network-based controllers for voltage source PWM front end rectifiers. , 0, , .		8
170	Nonlinear system identification using embedded dynamic neural networks. , 0, , .		8
171	A hybrid architecture for diagnosis in hybrid systems with applications to spacecraft propulsion system. , 2007, , .		8
172	A Sliding Mode-based congestion control for time delayed differentiated-services networks. , 2007, , .		8
173	Generalized fault recovery of an under-actuated quadrotor aerial vehicle. , 2012, , .		8
174	Modeling aircraft jet engine and system identification by using Genetic Programming. , 2012, , .		8
175	Verification and Validation of Hierarchical Fault Diagnosis in Satellites Formation Flight. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1384-1399.	3.3	8
176	A distributed control strategy for connectivity preservation of multi-agent systems subject to actuator saturation. , 2013, , .		8
177	Robust cooperative control reconfiguration/recovery in multi-agent systems. , 2014, , .		8
178	Cost performance based control reconfiguration in multi-agent systems. , 2014, , .		8
179	Stochastic fault and cyber-attack detection and consensus control in multi-agent systems. International Journal of Control, 2022, 95, 2379-2397.	1.2	8
180	Experimental evaluation of neural network based controllers for tracking the tip position of a flexible-link manipulator. , 0, , .		7

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181	Experimental results on tracking control of a flexible-link manipulator: a new output re-definition approach. , 0, , .		7
182	Fault Diagnosis of Linear Singularly Perturbed Systems. , 0, , .		7
183	Detection of actuator faults using a dynamic neural network for the attitude control subsystem of a satellite. , 0, , .		7
184	Nonlinear Geometric Approach to Fault Detection and Isolation in an Aircraft Nonlinear Longitudinal Model. Proceedings of the American Control Conference, 2007, , .	0.0	7
185	Reconfigurable control of networked nonlinear Euler-Lagrange systems subject to fault diagnostic imperfections. , 2011, , .		7
186	Nonlinear Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. , 2011, , .		7
187	Simultaneous fault detection and control design for an autonomous unmanned underwater vehicle. , 2013, , .		7
188	Particle filtering for state and parameter estimation in gas turbine engine fault diagnostics. , 2013, , .		7
189	A robust fault detection scheme with an application to mobile robots by using adaptive thresholds generated with locally linear models. , 2013, , .		7
190	Fault Detection and Diagnosis. Lecture Notes in Control and Information Sciences, 2009, , 21-49.	0.6	7
191	Optimization of an actuated flexible arm for improved control properties. , 0, , .		6
192	A New Facial Expression Recognition Technique using 2-D DCT and Neural Networks Based Decision Tree. , 2006, , .		6
193	Fault Diagnosis of an Actuator in the Attitude Control Subsystem of a Satellite using Neural Networks. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	6
194	Semi-Decentralized Optimal Control of a Cooperative Team of Agents. , 2007, , .		6
195	A geometric approach to Fault Detection and Isolation of neutral time-delay systems. , 2008, , .		6
196	Fault diagnosis and recovery from structural failures (icing) in unmanned aerial vehicles. , 2009, , .		6
197	A sub-optimal distributed Kalman filter with fusion feedback for acyclic systems. , 2009, , .		6
198	Unobservability Subspaces For Continuous-time Markovian Jump Systems with Application to Fault Diagnosis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 953-958.	0.4	6

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199	Cooperative actuator fault accommodation of formation flying vehicles with absolute measurements. , 2010, , .		6
200	Actuator fault accommodation strategy for a team of LTI multi-agent systems. , 2014, , .		6
201	A Simple and Reliable Photovoltaic Forecast for Reliable Power System Operation Control. IFAC-PapersOnLine, 2018, 51, 161-166.	0.5	6
202	Security Index of Linear Cyber-Physical Systems: A Geometric Perspective. , 2019, , .		6
203	An Efficient Filter Bank Structure for Adaptive Notch Filtering and Applications. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3226-3241.	4.0	6
204	On the domain of validity of nonlinear H/∞ control. , 0, , .		5
205	A novel fault-tree approach for identifying potential causes of satellite reaction wheel failure. , 0, , .		5
206	Variable structure-based nonlinear congestion control for networked controlled systems. , 0, , .		5
207	Neural Network-based Actuator Fault Diagnosis for Attitude Control Subsystem of an Unmanned Space Vehicle. , 0, , .		5
208	Intelligent model-based hierarchical fault diagnosis for satellite formations. , 2007, , .		5
209	Multi-level fault diagnosis in satellite formations using fuzzy rule-based reasoning. , 2008, , .		5
210	An optimal hybrid fault recovery for a team of unmanned vehicles. , 2009, , .		5
211	A decentralized cooperative actuator fault accommodation of formation flying satellites in deep space. , 2009, , .		5
212	Distributed $H\infty$ optimal control of networked uncertain nonlinear Euler-Lagrange systems with switching communication network topologies. , 2011, , .		5
213	A novel multiplexed fiber Bragg grating sensor with application in structural health monitoring. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2953-2956.	0.8	5
214	Fault detection and isolation of the wind turbine based on the real-valued negative selection algorithm. , 2013, , .		5
215	Fault detection and isolation of Riesz spectral systems: A geometric approach. , 2014, , .		5
216	Markovian jump guaranteed cost congestion control strategies for large scale mobile networks with differentiated services traffic. Automatica, 2014, 50, 1875-1883.	3.0	5

#	ARTICLE	IF	CITATIONS
217	Integrated fault detection, isolation and control design for continuous-time Markovian jump systems with uncertain transition probabilities. , 2014, , .		5
218	Data-driven fault detection, isolation and estimation of aircraft gas turbine engine actuator and sensors. , 2017, , .		5
219	A geometric approach to fault detection and isolation of multi-dimensional (n-D) systems. Multidimensional Systems and Signal Processing, 2017, 28, 1653-1678.	1.7	5
220	Integrated design of fault detection, isolation, and control for continuous-time Markovian jump systems. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1903-1919.	2.3	5
221	Structural Health Monitoring using Apodized Pi-Phase Shifted FBG: Decoupling Strain and Temperature Effects. , 2019, , .		5
222	Data-Driven Covert-Attack Strategies and Countermeasures for Cyber-Physical Systems. , 2021, , .		5
223	Optimal performance of a modified leader-follower cooperative team with partial availability of the leader command and agents actuator faults. , 2007, , .		4
224	An intelligent sensor and actuator fault detection and isolation scheme for nonlinear systems. , 2007, , .		4
225	Dynamic neural network-based Pulsed Plasma Thruster (PPT) fault detection and isolation for the attitude control system of a satellite. , 2008, , .		4
226	Cooperative fault accommodation in formation flying satellites. , 2008, , .		4
227	A hybrid fault diagnosis and recovery for a team of unmanned vehicles. , 2008, , .		4
228	Fault Detection and Isolation of Retarded Time-Delay Systems Using A Geometric Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7326-7331.	0.4	4
229	Hierarchical fault diagnosis and health monitoring in multi-platform space systems. , 2009, , .		4
230	Fault Consensus in a Network of Unmanned Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1001-1006.	0.4	4
231	Sensor fault detection and isolation using multiple robust filters for linear systems with time-varying parameter uncertainty and error variance constraints. , 2014, , .		4
232	Fault detection and isolation of Fornasini-Marchesini 2D systems: A geometric approach. , 2014, , .		4
233	Distributed H ₂ Optimal Formation Recovery Control of Heterogeneous Euler-Lagrange Systems Subject to Network Switching and Diagnostic Imperfections ... This publication was made possible by NPRP Grant No. 5-045-2-017 from the Qatar National Research Fund (a member of Qatar Foundation). The statements made herein are solely the responsibility of the authors.. IFAC-PapersOnLine, 2015, 48, 1120-1127.	0.5	4
234	Application of a radial basis function (RBF) neural network for fault diagnosis in a HVDC system. , 0, , .		3

#	ARTICLE	IF	CITATIONS
235	Adaptive tracking control of a flexible link manipulator using a discrete-time nonlinear model. , 1997, , .		3
236	Experimental results for nonlinear decoupling control of flexible multi-link manipulators. , 0, , .		3
237	Tip-position tracking for flexible-link manipulators using artificial neural networks: experimental results. , 0, , .		3
238	A nonlinear control design technique for formation flight of a constellation of satellites. , 0, , .		3
239	Localization of wideband sources in colored noise VIA generalized least squares (GLS). , 2005, , .		3
240	Chattering-Alleviated Generalized Variable Structure Control for Experimental Robot Manipulators. , 0, , .		3
241	A Robust Congestion Control Strategy for Delay Dependent Differentiated-Services Networks. , 2007, , .		3
242	Stability Analysis of a Class of Switched Time-delay Systems with Unstable Subsystems. , 2007, , .		3
243	Fault detection in spacecraft attitude control system. , 2007, , .		3
244	An Adaptive Congestion Control Technique for Networked Control Systems. , 2007, , .		3
245	A decentralized H ∞ routing control strategy for mobile networked multi-agents. , 2009, , .		3
246	Diagnosis of hybrid systems: Part 2- residual generator selection and diagnosis in the presence of unreliable residual generators. , 2009, , .		3
247	Fault detection and isolation of linear impulsive systems. , 2009, , .		3
248	On the attitude recovery of an underactuated spacecraft using two control moment gyroscopes. , 2009, , .		3
249	Finite Unobservability Subspaces for Time-Delay Systems with Application to Fault Detection and Isolation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 215-220.	0.4	3
250	Fault diagnosis of gas turbine engines by using dynamic neural networks. , 2011, , .		3
251	A hybrid fault detection and isolation strategy for a team of cooperating unmanned vehicles. International Journal of Control, 2015, 88, 90-103.	1.2	3
252	Solar radiation (insolation) forecasting using constructive neural networks. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
253	Event-triggered fault estimation and accommodation design for linear systems. , 2016, , .		3
254	Diagnosis, Prognosis and Health Monitoring of Electro Hydraulic Servo Valves (EHSV) using Particle Filters. , 2019, , .		3
255	Unbiased inversion-based fault estimation of systems with non-minimum phase fault-output dynamics. IET Control Theory and Applications, 2019, 13, 1629-1638.	1.2	3
256	Mitigation and Resiliency of Multi-Agent Systems Subject to Malicious Cyber Attacks on Communication Links. , 2020, , .		3
257	Tracking control of partially linearizable discrete-time nonlinear systems. , 0, , .		2
258	Optimum structure design for flexible-link manipulators. , 0, , .		2
259	Direct adaptive control of discrete-time nonlinear systems using an input-output model. , 0, , .		2
260	Robust regulation of a flexi-link manipulator based on a new modeling approach. , 0, , .		2
261	Identification of a turbogenerator system using adaptive time delay neural networks. , 0, , .		2
262	A neural networks controller for a single-link flexible manipulator based on the inverse dynamics structure. , 2000, , .		2
263	A neural network controller for a discrete-time nonlinear non-minimum phase system. , 2000, , .		2
264	Input-side training in constructive neural networks based on error scaling and pruning. , 2000, , .		2
265	A robust state-space approach for localizing wideband sources in sensor arrays. , 0, , .		2
266	Design of a haptic display for interacting and sliding on deformable objects. , 0, , .		2
267	Control strategies for a haptic device interfacing with virtual environment. , 0, , .		2
268	A novel dynamic control design scheme for flexible-link manipulators. , 0, , .		2
269	Neural Parameter Estimators for hybrid fault diagnosis and estimation in nonlinear systems. , 2007, , .		2
270	Performance Analysis of the FxLms-Based Narrowband Active Noise Control System with Online Secondary Path Modeling. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
271	A Recurrent Neural Network Based Fault Diagnosis Scheme for a Satellite. , 2007, , .		2
272	A Distributed Congestion Control Strategy for Differentiated-Services Network. , 2008, , .		2
273	A distributed and cooperative supervisory estimation of multi-agent systems - Part I: Framework. , 2009, , .		2
274	Optimal distributed and cooperative supervisory estimation of multi-agent systems subject to unreliable information. , 2011, , .		2
275	A guaranteed cost congestion control strategy for a network of multi-agent systems subject to differentiated services traffic. , 2011, , .		2
276	Detection of transverse load using the high birefringence bragg grating and genetic algorithm. , 2012, , .		2
277	Robust Hybrid EKF approach for state estimation in multi-scale nonlinear singularly perturbed systems. , 2014, , .		2
278	Fault diagnosis of gas turbine engines: A symbolic multiple model approach. , 2014, , .		2
279	Performance-based prognosis scheme for industrial gas turbines. , 2015, , .		2
280	A sensor fault detection and isolation strategy by using a Dendritic Cell Algorithm. , 2016, , .		2
281	Subspace-based identification of linear systems using arbitrary data segments. , 2016, , .		2
282	Control reconfiguration for multiple autonomous vehicles subject to actuator faults and disturbances. , 2016, , .		2
283	Cooperative State and Fault Estimation of Formation Flight of Satellites in Deep Space Subject to Unreliable Information. IFAC-PapersOnLine, 2019, 52, 206-213.	0.5	2
284	A Multidimensional Bayesian Methodology for Diagnosis, Prognosis, and Health Monitoring of Electrohydraulic Servo Valves. IEEE Transactions on Control Systems Technology, 2022, 30, 931-943.	3.2	2
285	Intelligent current controller for an HVDC transmission link. , 0, , .		1
286	Comparison of linear and nonlinear H_{∞} control for a flexible-link manipulator. , 1998, , .		1
287	Experimental results on neural network-based control strategies for flexible-link manipulators. , 0, , .		1
288	A decentralized H_{∞} control scheme for robust routing in networks. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
289	A robust Fault Detection and Isolation scheme with application to magnetorquer type actuators for satellites. , 2007, , .		1
290	A Nonlinear Geometric Fault Detection and Isolation Approach for Almost-Lighter-Than-Air-Vehicles. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	1
291	Diagnosis of hybrid systems: Part 1- diagnosability. , 2009, , .		1
292	A distributed and cooperative supervisory estimation of multi-agent systems - Part II: Verification and case study. , 2009, , .		1
293	A Markovian jump guaranteed cost congestion control strategy for mobile networks subject to differentiated services traffic. , 2011, , .		1
294	Fault diagnosis of gas turbine engines by using dynamic neural networks. , 2011, , .		1
295	Distributed and cooperative estimation of formation flight of unmanned vehicles subject to faults and unreliable information. , 2012, , .		1
296	Dynamic neural networks for jet engine degradation prediction and prognosis. , 2014, , .		1
297	A novel affine qLPV model derivation method for fault diagnosis H_{∞} performance improvement. , 2015, , .		1
298	Fault detection of infinite dimensional systems in presence of disturbances. , 2016, , .		1
299	Suboptimal control reconfiguration in switched multi-agent networked systems. , 2016, , .		1
300	Multi-frequency narrowband active noise control with online feedback-path modeling using IIR adaptive notch filters. , 2019, , .		1
301	On Linearization of Nonlinear Singularly Perturbed Systems. , 1986, , .		1
302	Stochastic model predictive control-based countermeasure methodology for satellites against indirect kinetic cyber-attacks. International Journal of Control, 2023, 96, 1895-1908.	1.2	1
303	Linear equivalents for nonlinear singularly perturbed systems. , 1987, , .		0
304	An integral manifold approach to tracking control for a class of non-minimum phase linear systems using output feedback. , 0, , .		0
305	Neural network controllers for a flexible-link manipulator: experimental results. , 0, , .		0
306	Discrete-time control system design for a Reactive Ion Etching (RIE) system. , 0, , .		0

#	ARTICLE	IF	CITATIONS
307	Robust two-time scale control system design for reactive Ion etching system. , 2003, , .		0
308	A State-space Approach for Localizing Narrowband Sources Based on RELAX Method. , 0, , .		0
309	Robust Haptic Telemanipulation Control Systems. , 2006, , .		0
310	A New Facial Expression Recognition Technique using 2-D DCT and Neural Networks Based Decision Tree. , 0, , .		0
311	A stable robust adaptive controller for a class of nonlinear systems. , 2006, , .		0
312	H ∞ control design for uncertain linear systems with time-varying delays using LMI. , 2007, , .		0
313	A robust dynamic routing strategy based on H ∞ control. , 2007, , .		0
314	Robust Fault Detection and Isolation of Linear Systems with Distributed Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 768-773.	0.4	0
315	A distributed guaranteed cost congestion control strategy for mobile networks with differentiated services traffic. , 2011, , .		0
316	Design and Simulation of Apodized π -Phase Shifted FBG as Simultaneous Sensing of Strain, Temperature, and Vibration. , 2019, , .		0
317	A robust intelligent fault detection scheme for magnetorquer type actuators of satellites. , 2007, , .		0
318	Proposed FDII for Nonlinear Systems with Partial State Measurement. Lecture Notes in Control and Information Sciences, 2009, , 71-97.	0.6	0
319	Proposed FDII for Nonlinear Systems with Full-State Measurement. Lecture Notes in Control and Information Sciences, 2009, , 51-70.	0.6	0
320	Compensating for Communication Channels Effects in the FDI Problem. , 2011, , 99-147.		0
321	Semi-decentralized Optimal Consensus Strategies. , 2013, , 37-60.		0
322	Nonideal Considerations for Semi-decentralized Optimal Team Cooperation. , 2013, , 61-84.		0
323	Conclusions and FutureWork. , 2013, , 115-117.		0
324	Linear Matrix Inequalities in the Team Cooperation Problem. , 2013, , 85-114.		0

#	ARTICLE	IF	CITATIONS
325	Fault Diagnosis of Nonlinear Systems using a Hybrid-Degree Dual Cubature-based Estimation Scheme. , 2021, , .		0